

# PLC-OSP-120UC/ 24DC/ 2 - Solid-state relay module



2967484

<https://www.phoenixcontact.com/us/products/2967484>

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PLC-INTERFACE, consisting of PLC-BSP.../21 basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 120 V AC/110 V DC, output: 3 - 33 V DC/3 A

The figure shows the version PLC-BSC- 24DC/21

## Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed solid-state relay
- Zero voltage switch at AC output
- High switching power
- Functional plug-in bridges
- Integrated input circuit

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2967484                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C461                           |
| Product key                          | DK6223                         |
| GTIN                                 | 4017918165918                  |
| Weight per piece (including packing) | 30.9 g                         |
| Weight per piece (excluding packing) | 29.06 g                        |
| Customs tariff number                | 85364900                       |
| Country of origin                    | DE                             |

## Technical data

### Notes

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

|                |                          |
|----------------|--------------------------|
| Product type   | Solid-state relay module |
| Product family | PLC-INTERFACE            |
| Application    | Universal                |
| Operating mode | 100% operating factor    |

#### Insulation characteristics: Standards/regulations

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

#### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 15.09.2025 |
|------------------------------|------------|

### Electrical properties

|                             |                                      |
|-----------------------------|--------------------------------------|
| Test voltage (Input/output) | 2.5 kV (50 Hz, 1 min., input/output) |
|-----------------------------|--------------------------------------|

### Input data

|  |                                    |
|--|------------------------------------|
| Nominal input voltage $U_N$                          | 120 V AC                           |
|  | 110 V DC                           |
| Input voltage range in reference to $U_N$            | 0.9 ... 1.1                        |
| Input voltage range                                  | 108 V AC ... 132 V AC              |
|  | 99 V DC ... 121 V DC               |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.3$                         |
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.9$                         |
| Typical input current at $U_N$                       | 3.5 mA                             |
| Typical response time                                | 3.5 ms (at $U_N$ )                 |
| Typical turn-off time                                | 7 ms (at $U_N$ )                   |
| Operating voltage display                            | Yellow LED                         |
| Protective circuit                                   | Bridge rectifier; Bridge rectifier |
| Transmission frequency                               | 10 Hz                              |

### Output data

|                             |                          |
|-----------------------------|--------------------------|
| Contact switching type      | 1 N/O contact            |
| Design of digital output    | electronic               |
| Output voltage range        | 3 V DC ... 33 V DC       |
| Limiting continuous current | 3 A (see derating curve) |

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|  |  |
|--|--|
| Maximum inrush current                           | 15 A (10 ms)   |
| Voltage drop at max. limiting continuous current | ≤ 200 mV   |
| Output circuit                                   | 2-conductor, floating  |
| Protective circuit                               | Reverse polarity protection; Polarity protection diode<br>Surge protection |

## Connection data

### Input side

|                                  |  |
|----------------------------------|--|
| Connection method                | Spring-cage connection                       |
| Stripping length                 | 8 mm   |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 26 ... 14                                    |

### Output side

|                                  |  |
|----------------------------------|--|
| Connection method                | Spring-cage connection                       |
| Stripping length                 | 8 mm   |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 26 ... 14                                    |

## Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

## Material specifications

|  |                  |
|--|------------------|
| Color  | green (RAL 6021) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing)     |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

## Standards and regulations

### Standards/regulations

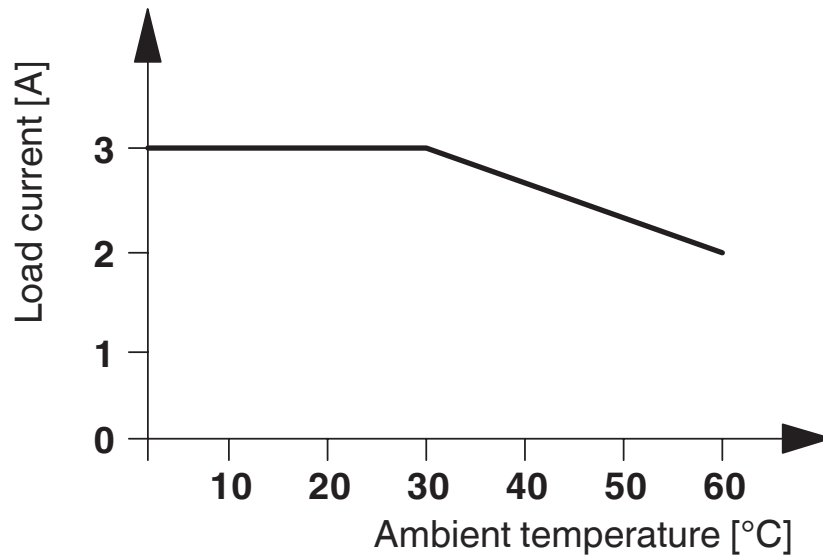
|                       |                       |
|-----------------------|-----------------------|
| Standards/regulations | IEC 60664<br>EN 50178 |
|-----------------------|-----------------------|

## Mounting

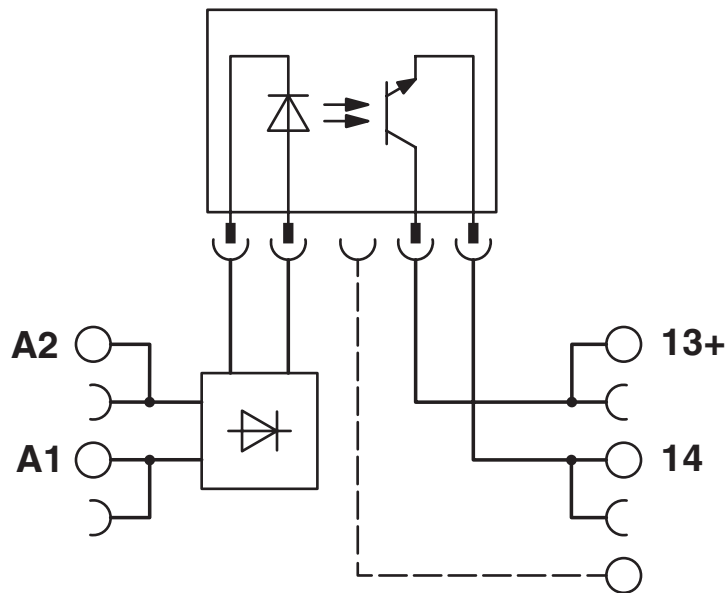
|                   |                           |
|-------------------|---------------------------|
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

## Drawings

Diagram



Circuit diagram



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## Environmental product compliance

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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